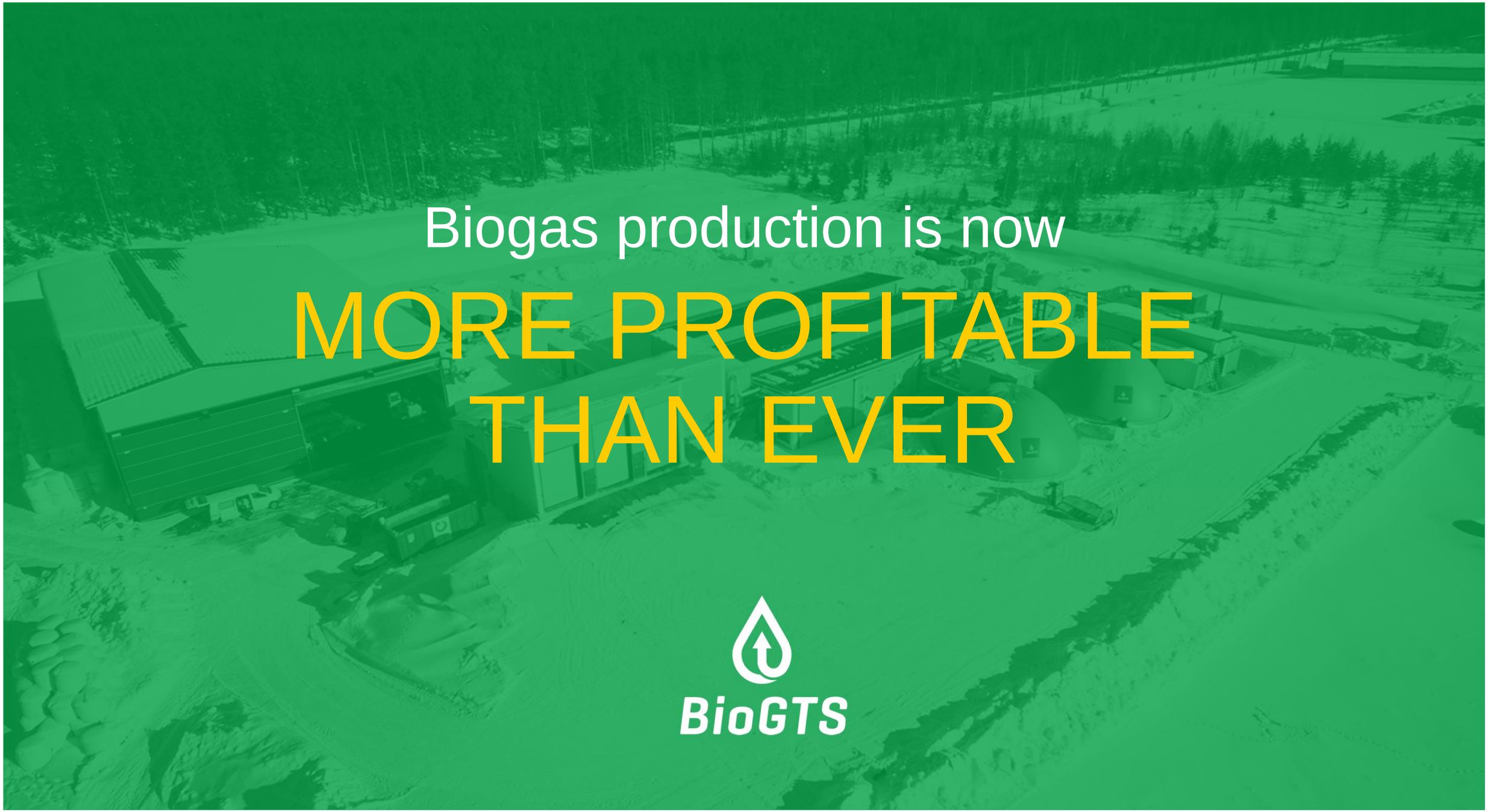
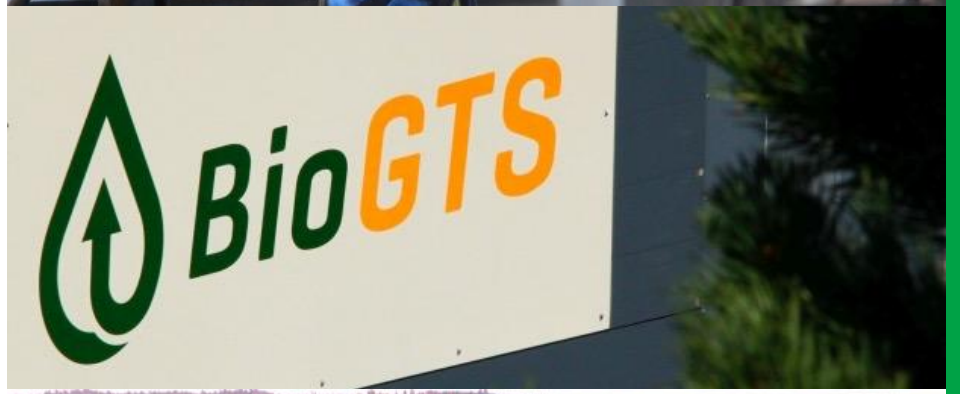
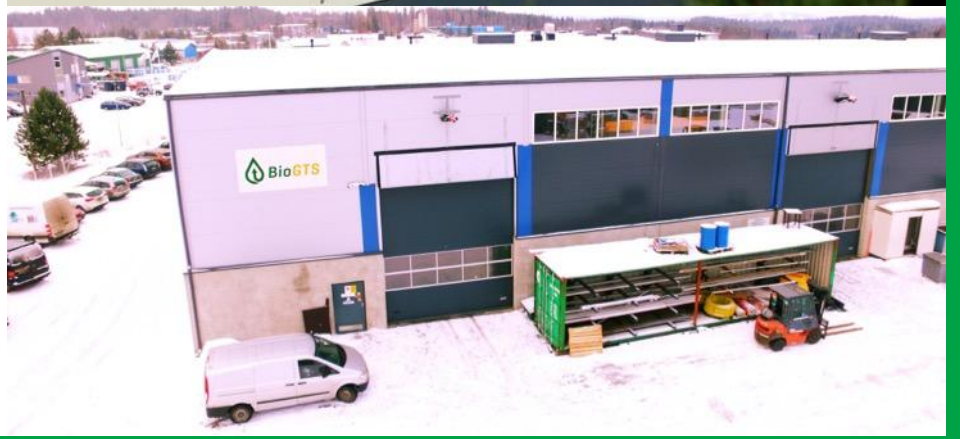

Biogas production is now
MORE PROFITABLE
THAN EVER
BioGTS

BIOGTS OY

- Established in 2011
- Designing, constructing, operating and researching biogas and biodiesel plants
- Employs more than 100 professionals, both directly and via subcontractors
- Turnover in 2016: 11.3 million euros





OUR CLIENTS

WASTE MANAGEMENT COMPANIES

ENERGY COMPANIES

AGRICULTURE

FOOD INDUSTRY

PULP AND PAPER INDUSTRY

BIOGTS® PLANTS

BIOGAS

BIODIESEL

BIOREFINERY

- Compact reactor structure, extremely competitive investment cost, short investment payback period and lower operating costs
- Our high-quality plant deliveries are based on a prefabricated and cost-efficient modular structure, manufactured in Finland
- Small land area requirement, easy to scale
- A quick plug-in installation
- Continuously operating, automated and remotely monitored

BIOGTS® BIOGAS PLANTS

- The biogas plant turns waste into bioenergy and biofuel
- Based on patented dry anaerobic digestion process
- Turn-key installation
- As much as 30 % lower investment costs and up to 70 % lower operating costs than with traditional biogas processes

BIOGTS® BIOGAS PLANTS

- A horizontal container reactor
- Cost-efficient, modular structure
- Light foundations, all structures above the ground
- Easy to scale
- Small land-area requirement

BIOGTS® BIOGAS PLANTS

- Continuously operating, automated and remotely monitored
- All maintenance work can be done from outside the reactor
- Quick start-up
- High collateral value
- Several financing options, including leasing

BIOGTS® BIOGAS PLANT

– FEEDSTOCK

- Food waste from households, restaurants and grocery stores
- Organic fraction of Municipal Solid Waste
- Biodegradable waste and residues from the food industry
- Wastewater sludge
- Dry manure, separated manure
- Agricultural biomass: silage; straw; grass from protection zones and set-aside fields; and other plant waste from agriculture, gardens and parks

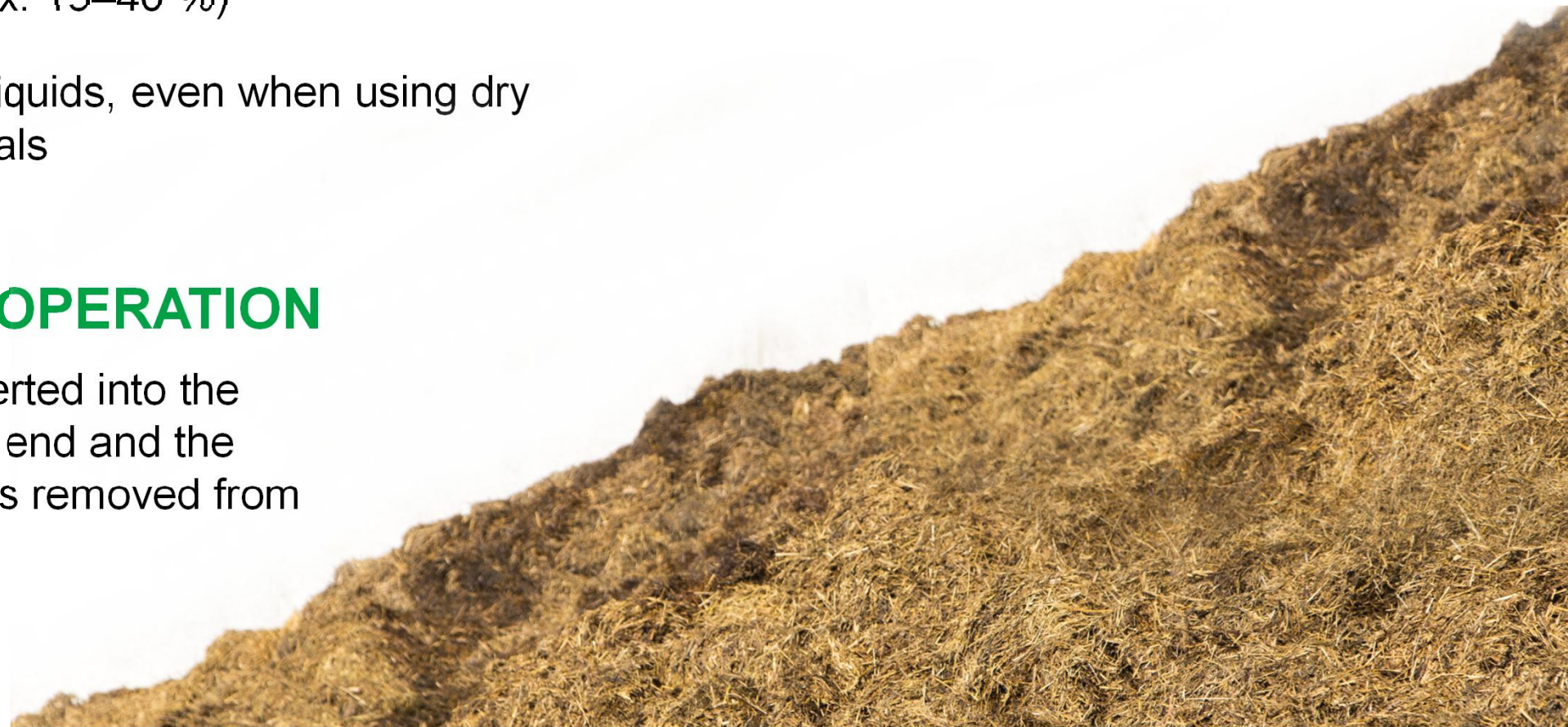
THE BIOGAS PROCESS – DRY ANAEROBIC DIGESTION

DRY ANAEROBIC DIGESTION

- High dry material concentration of the feedstock (approx. 15–40 %)
- No need to add liquids, even when using dry feedstock materials

PLUG-FLOW OPERATION

- Feedstock is inserted into the reactor from one end and the treated material is removed from the other.

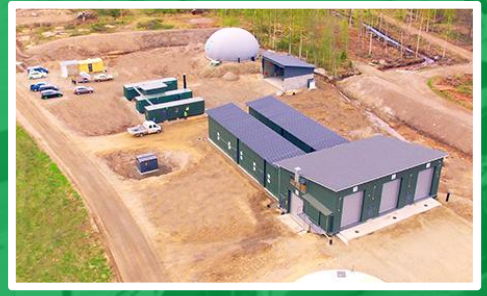


BIOGTS® PLANTS

BIOGAS | BIODIESEL | BIOREFINERY

BioGTS® Biogas plant, Haminan Energia Ltd., Virolahti, Finland

BioGTS® Biogas plant, Mustankorkea Ltd., Jyväskylä, Finland



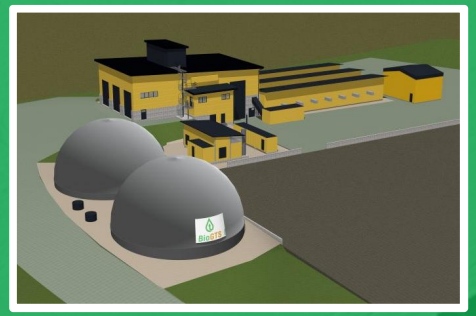
BioGTS® Biogas plant, Biohauki Ltd., Mikkeli, Finland

BioGTS® Biogas plant, Suupohja Vocational School, Kauhajoki, Finland

BioGTS® Biogas plant, Punkalaitumen Bioenergiayhtiö Ltd. Punkalaidun, Finland

BioGTS® Biogas plant, Central China

Bioboksi® Biogas plant, Qvidja Kraft AB, Parainen, Finland



BioGTS® Biogas plant, BioSairila, Mikkeli, Finland

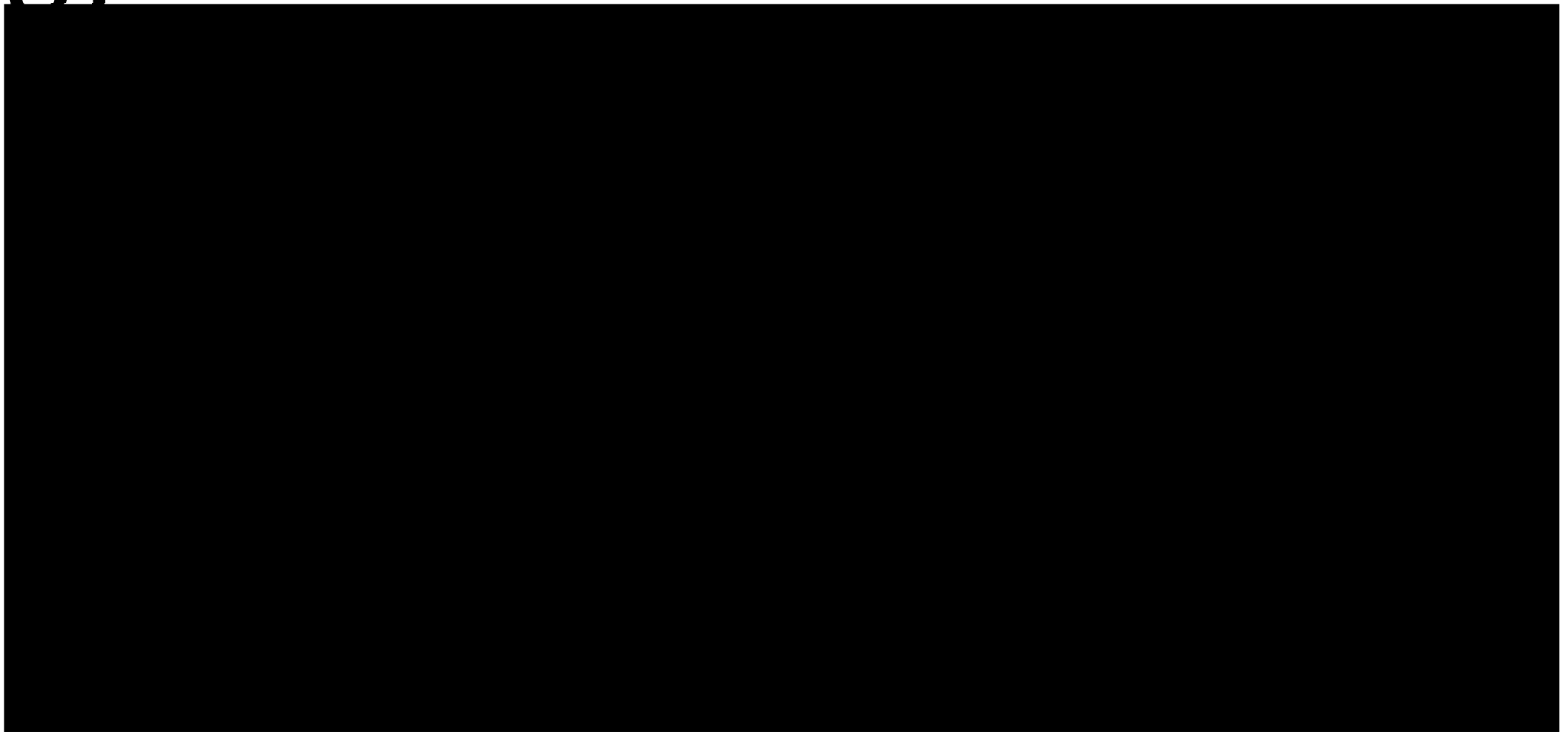
BioGTS® Biorefinery, VSS Biopower Ltd., Säkylä, Finland

BioGTS® Biodiesel plant, BioMpower Ltd., Laukaa, Finland

MUSTANKORKEA OY, THE BIGGEST BIOGAS PLANT IN THE JYVÄSKYLÄ REGION

- Client: municipal waste management company
- Waste treatment capacity approx. 19,000 tons/year of municipal waste, sewage sludge and residues from food industry
- The biogas is utilized as vehicle fuel
- Equivalent to the annual fuel consumption of approx. 1,400-1,600 passenger cars
- Construction was completed in spring 2017, in start-up phase

BIOGAS PLANT - MUSTANKORKEA OY



THANK YOU
FOR YOUR TIME!

BioGTS Ltd.

BioGTS

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